## Claims

- 1. A lithium tantalate substrate having volume resistivity which has been controlled within the range of from  $10^6$  to  $10^8~\Omega cm$ .
- 2. The lithium tantalate substrate according to claim 1, which has a heat history of being subjected to heat treatment at a temperature kept to from 350 to  $600^{\circ}$ C, in the state of being buried in a mixed powder of Al and Al<sub>2</sub>O<sub>3</sub>.
  - 3. A process for manufacturing a lithium tantalate substrate by using a lithium tantalate crystal grown by the Czochralski method, wherein;

15

- a lithium tantalate crystal worked in the state of a substrate is buried in a mixed powder of Al and Al<sub>2</sub>O<sub>3</sub>, followed by heat treatment carried out at a temperature kept to from 350 to 600°C, to manufacture a lithium tantalate substrate having volume resistivity which has been controlled within the range of from  $10^6$  to  $10^8$   $\Omega$ cm.
- The process for manufacturing a lithium
  tantalate substrate according to claim 3, wherein said heat treatment is carried out in a reduced-pressure

atmosphere of an inert gas.